00 - cover photo

NAVY TANKER T2-SE-A2
MISSION SANTA YNEZ (AO-134)

LAUNCH DATE: DECEMBER 19, 1943

The Marinship Corporation constructed thirty-one "Mission" class tankers for the U.S. Navy. The design was an adaptation from the T2-SE-A1, with the exception of a larger power plant - 10,000 hp versus 6,000 hp. Members of this class served in the U.S. Navy, Naval Transportation Service, and Military Sea Transportation Service - later Military Sealift Command. The *Mission Santa Ynez* transported fuel products from 1943 to 1975 and significantly contributed to her country in times of war and peace. She is the last *Mission* tanker afloat.

Principle Dimensions:
Length (oa): 523'6"
Beam: 68'
Draft: 30'
Cargo Capacity: 120,400 barrels (oil)
Displacement: 21,880 (fl) tons

Diagram showing the UNREP system deployed.

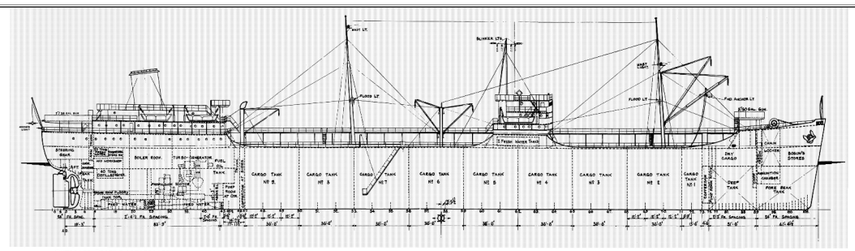
LAUNCHED: Sausalito, CA
12.19.1943
LAID UP: James River, VA
03.28.1946
(Chartered to Pacific Tankers, the Mission Santa Ynez carried fuel to United States forces overseas during WWII.)

This project was cosponsored by the Historic American Engineering Record (HAER) and the U.S. Maritime Administration (MARAD). The project was directed by Todd A. Croteau, HAER Maritime Program Coordinator and Erhard Koehler, MARAD Ships Disposal Coordinator. Team members included; Brian Clayton - Historian, Crystal Olin - Architect, and Jet Lowe - HAER Staff Photographer.

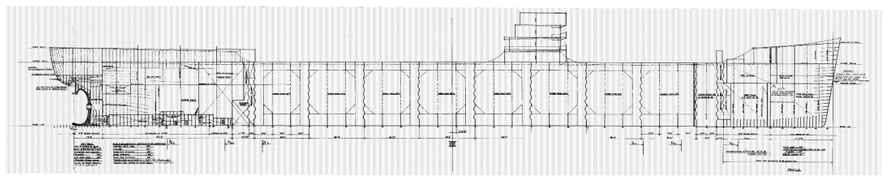
NOTE:
Please refer to the U.S. NAVY OILERS AND TANKERS (HAER DC-62): UNDERWAY REPLENISHMENT AND FUELING TECHNOLOGIES documentation set for a detailed account of how the Mission Santa Ynez and related ships functioned at sea.

MISSION SANTA YNEZ (AO-134)
BENICIA VICINITY
CALIFORNIA

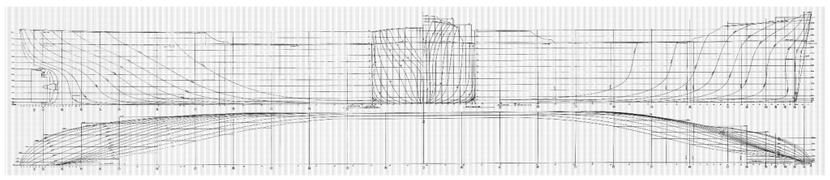
01 - title sheet



OUTBOARD PROFILE (STARBOARD)



INBOARD PROFILE (CUT MIDSHIP, LOOKING OUTBOARD TOWARD PORT)



T2 NAVY TANKER LINES

1/16"=1'-0" 0 10 40 80 120 160 200 FEET 240 280 320 360 400 440
0 5 10 15 20 METERS 30 35 40 45 50 1/16"=1'-0"

NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

MISSION SANTA YNEZ (AO-134)
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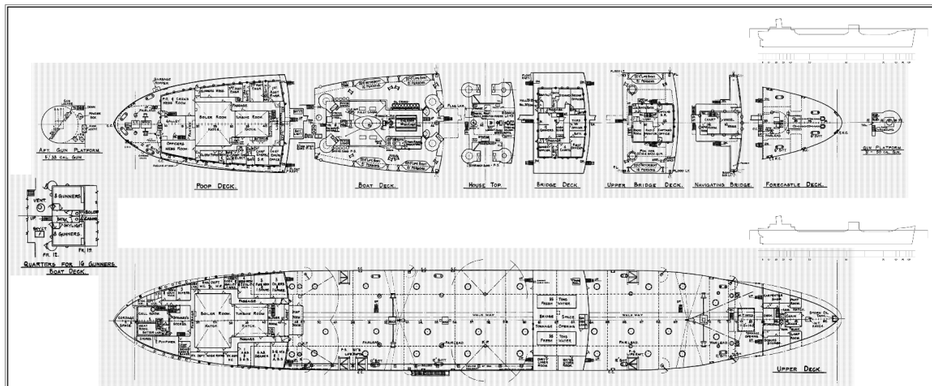
CALIFORNIA

02 - profiles, body, lines & sheer plan



SEE SHEETS 6, 7, AND 8 FOR DETAILING OF THESE PUMP AND ENGINE ROOMS.

1/16"=1'-0" 0 10 40 80 120 160 200 FEET 240 280 320 360 400 440
0 5 10 15 20 METERS 30 35 40 45 50 1/16"=1'-0"

NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

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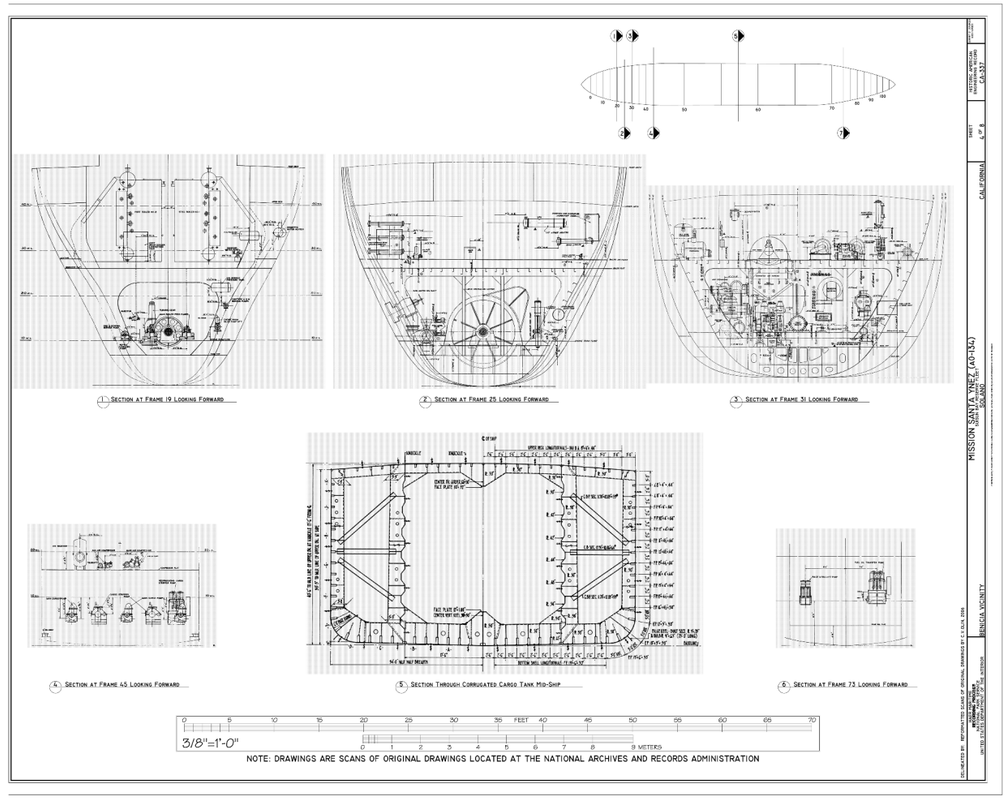
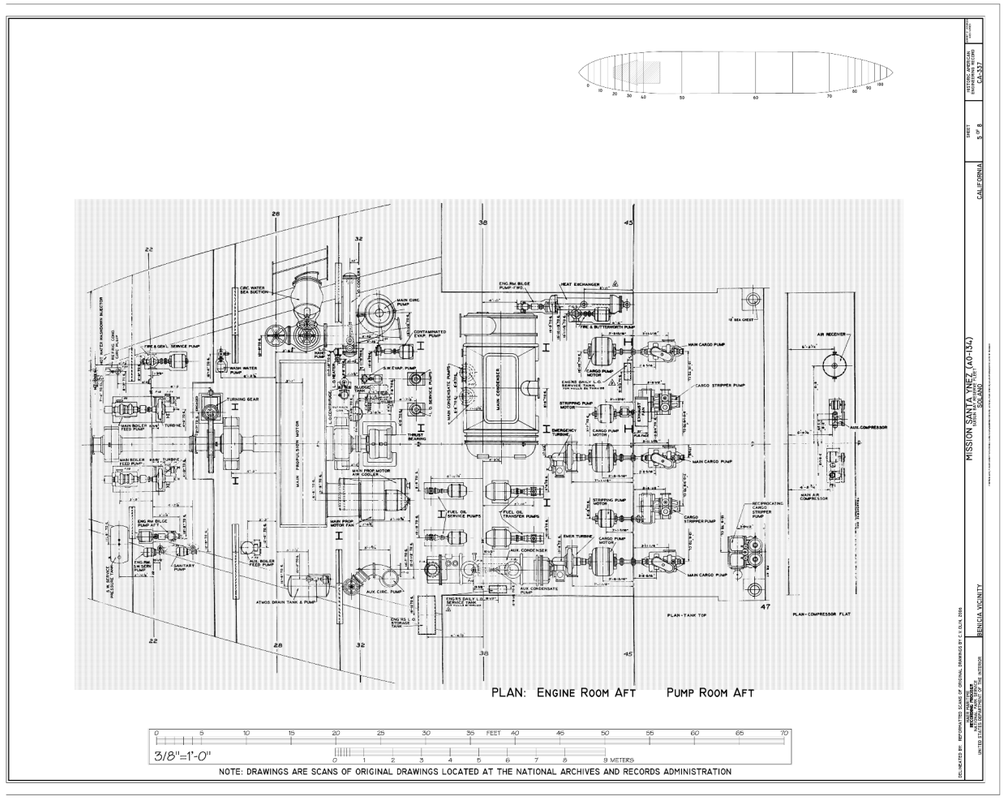
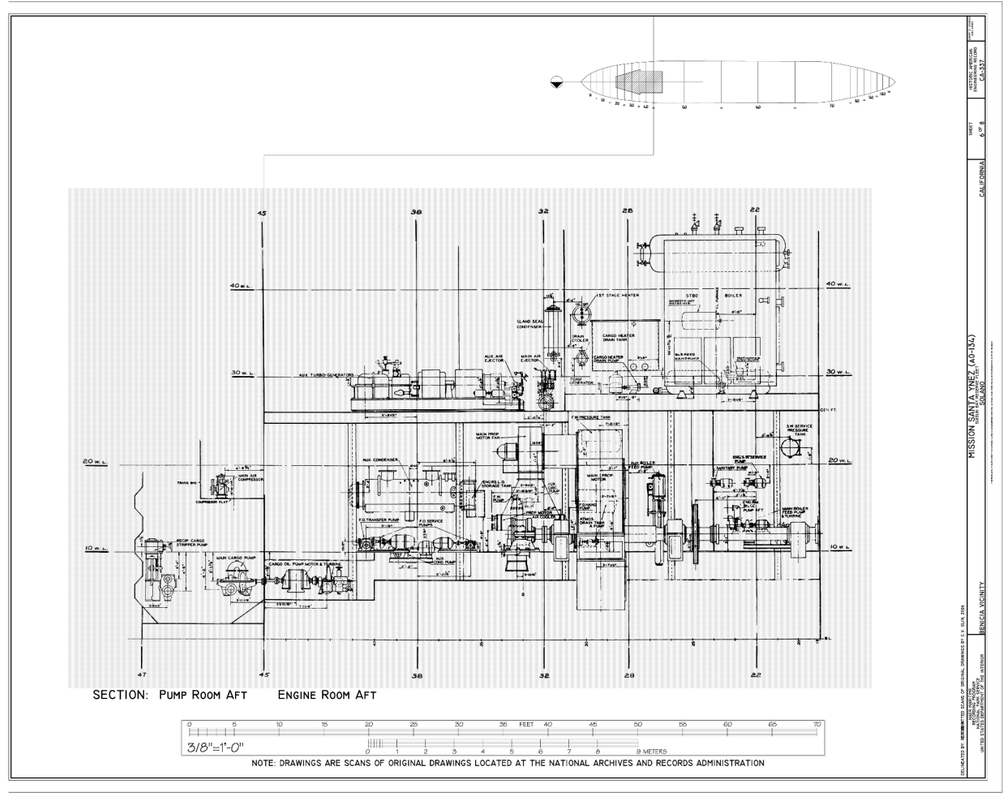
03 - deck plan


1 SECTION AT FRAME 19 LOOKING FORWARD
2 SECTION AT FRAME 25 LOOKING FORWARD
3 SECTION AT FRAME 31 LOOKING FORWARD
4 SECTION AT FRAME 45 LOOKING FORWARD
5 SECTION THROUGH CORRUGATED CARGO TANK MID-SHIP
6 SECTION AT FRAME 73 LOOKING FORWARD
3/8"=1'-0"
NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

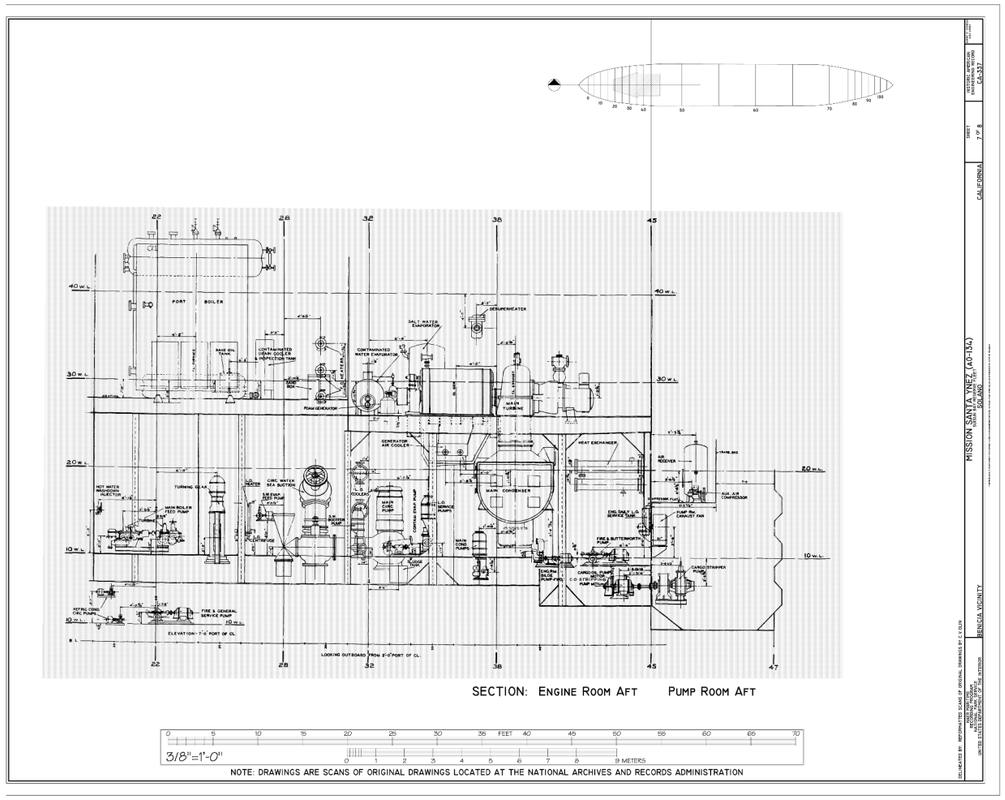
04 - midship & type sections


PLAN: ENGINE ROOM AFT PUMP ROOM AFT
3/8"=1'-0"
NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

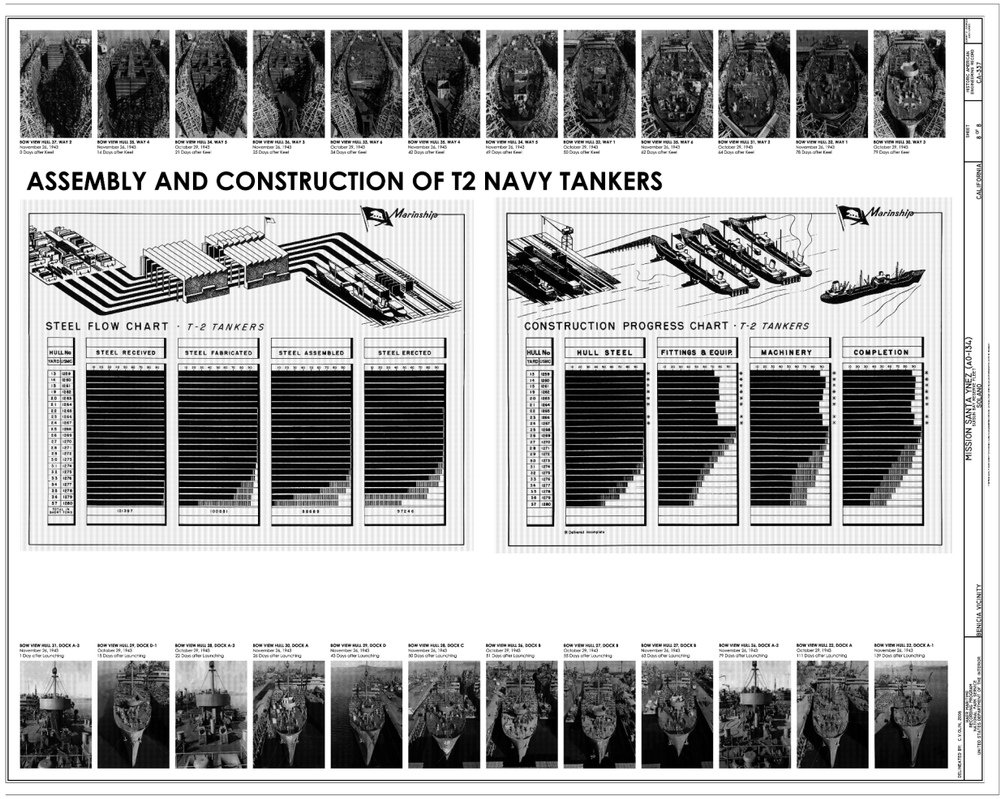
05 - engine & pump room aft


SECTION: PUMP ROOM AFT ENGINE ROOM AFT
3/8"=1'-0"
NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

06 - engine & pump room aft section 1


SECTION: ENGINE ROOM AFT PUMP ROOM AFT
3/8"=1'-0"
NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

07 - engine & pump room aft section 2



08 - assembly & construction